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3. The fixture recited in Claim 2 wherein a fixed rod is secured to the base and the articulated structure comprises eight dual axis clamps that are rotatable, slidable and securable to six rods.

4. The fixture recited in Claim 3 further comprising two additional rods that are slidably secured to a selected one of the rods by way of two additional dual axis clamps.

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5. The fixture recited in Claim 1 wherein the articulated structure comprises eight dual axis clamps that are rotatable, slidable and securable to six rods.

6. The fixture recited in Claim 5 further comprising two additional rods that are rotatable, slidable and securable a selected one of the four rods by way of two additional dual axis clamps.

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7. The fixture recited in Claim 1 wherein the articulated structure comprises:
 a plurality of first dual axis clamps that are each rotatable, slidable and securable to a fixed rod and that are each rotatable, slidable and securable to a second transverse rod;
 a plurality of second dual axis clamps that are each rotatable, slidable and securable to a respective second rod and that are each rotatable, slidable and securable to a third rod that is disposed generally transverse to the respective second rod;
 a plurality of third dual axis clamps that are each rotatable, slidable and securable to a respective third rod and that are each rotatable, slidable and securable to a fourth rod that is disposed generally transverse to the respective third rod; and
 a plurality of fourth dual axis clamps that are each rotatable, slidable and securable to a respective fourth rod and that are each rotatable, slidable and securable to a fifth rod.

8. The fixture recited in Claim 7 further comprising a plurality of fifth dual axis clamps that are each rotatable, slidable and securable to the fifth rod and that are each rotatable, slidable and securable to a sixth rod.

9. The fixture recited in Claim 1 wherein a plurality of first dual axis clamps are securable to a base and wherein the fixture further comprises a plurality of fifth dual axis clamps that are each rotatable, slidable and securable to the fifth rod and that are each rotatable, slidable and securable to a sixth rod, and wherein the sixth rods support the fifth rod at different positions above the base.

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11. A universal holding fixture for holding an object, comprising:
 a base; and

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5 an articulated structure secured to the base that comprises a plurality of dual axis clamps that are each rotatable, slidable and securable to at least one rod, which rod and clamps are rotatable and slideable relative to each other to position the rod at varying and arbitrary angles, and wherein ends of selected ones of the rods are suitably positioned and secured to hold the object.

12. The fixture recited in Claim 11 wherein a fixed rod is secured to the base and the articulated structure comprises eight dual axis clamps that are rotatable, slideable and securable to six rods.

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13. The fixture recited in Claim 12 further comprising two additional rods that are rotatable, slideable and securable to a selected one of the six rods by way of two additional dual axis clamps.

14. The fixture recited in Claim 11 wherein the articulated structure comprises:

a plurality of first dual axis clamps that are each rotatable, slideable and securable to a fixed rod and that are each rotatable, slideable and securable to a second transverse rod;

5 a plurality of second dual axis clamps that are each rotatable, slideable and securable to a respective second rod and that are each rotatable, slideable and securable to a third rod that is disposed generally transverse to the respective second rod;

a plurality of third dual axis clamps that are each rotatable, slideable and securable to a respective third rod and that are each rotatable, slideable and securable to a fourth rod that is disposed generally transverse to the respective third rod; and

10 a plurality of fourth dual axis clamps that are each rotatable, slideable and securable to a respective fourth rod and that are each rotatable, slideable and securable to a fifth rod.

15. The fixture recited in Claim 14 further comprising a plurality of fifth dual axis clamps that are each rotatable, slideable and securable to the fifth rod and that are each rotatable, slideable and securable to a sixth rod.

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Me 5 17. A universal holding fixture for holding an object, comprising:

a base; and

an articulated structure rotatably secured to the base that comprises:

a plurality of first dual axis clamps that are each rotatable, slideable and securable to a fixed rod and that are each rotatable, slideable and securable to a second transverse rod;

a plurality of second dual axis clamps that are each rotatable, slideable and securable to a respective second rod and that are each rotatable, slideable and securable to a third rod that is disposed generally transverse to the respective second rod;